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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/651,696	08/30/2000	Peter Ledel Gammel	18-47-1-57	2486
759	90 07/03/2003		•	
Lucent Technologies Inc 600 Mountain Avenue P O Box 636		1.1	EXAMINER BERCK, KENNETH A	
Murray Hill, NJ	07974-0636		ART UNIT	PAPER NUMBER
			2879	
			DATE MAILED: 07/03/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

•		Application No.	Applicant(s)
£ (Offic Action Summary	09/651,696	GAMMEL ET AL.
		Examiner	Art Unit
		Ken A Berck	2879
Period fo	The MAILING DATE of this communication or Reply	on appears on the c ver sheet w	th the correspondence address
THE I - Exter after - If the - If NO - Failu - Any I	ORTENED STATUTORY PERIOD FOR IMAILING DATE OF THIS COMMUNICAT asions of time may be available under the provisions of 37 SIX (6) MONTHS from the mailing date of this communicate period for reply specified above is less than thirty (30) day of period for reply is specified above, the maximum statutory are to reply within the set or extended period for reply will, be reply received by the Office later than three months after the patent term adjustment. See 37 CFR 1.704(b).	FION. CFR 1.136(a). In no event, however, may a retion. It is, a reply within the statutory minimum of thir period will apply and will expire SIX (6) MON by statute, cause the application to become Al	eply be timely filed by (30) days will be considered timely. ITHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).
1)	Responsive to communication(s) filed of	on	
2a) <u></u> □	This action is FINAL . 2b)	★ This action is non-final.	
3)	Since this application is in condition for closed in accordance with the practice		
•	ion of Claims		
	Claim(s) <u>8-20</u> is/are pending in the appl		
	4a) Of the above claim(s) is/are w	ithdrawn from consideration.	
· <u> </u>	Claim(s) is/are allowed.		
·	Claim(s) <u>8-20</u> is/are rejected.		
	Claim(s) is/are objected to.		
-	Claim(s) are subject to restriction ion Papers	and/or election requirement.	
	The specification is objected to by the Ex	aminer	
· <u></u>	The drawing(s) filed on 30 August 2000 is		ted to by the Examiner
/-	Applicant may not request that any objection	•	·
11)	The proposed drawing correction filed on	-···	, ,
·	If approved, corrected drawings are require		
12) 🔲	The oath or declaration is objected to by t	the Examiner.	
Priority u	ınder 35 U.S.C. §§ 119 and 120		
13)	Acknowledgment is made of a claim for	foreign priority under 35 U.S.C.	§ 119(a)-(d) or (f).
a)	☐ All b)☐ Some * c)☐ None of:		
	1. Certified copies of the priority doci	uments have been received.	
	2. Certified copies of the priority doci	uments have been received in A	pplication No
* S	3. Copies of the certified copies of the application from the Internation See the attached detailed Office action for	nal Bureau (PCT Rule 17.2(a)).	· ·
14) 🗌 A	Acknowledgment is made of a claim for do	omestic priority under 35 U.S.C.	§ 119(e) (to a provisional application).
)		
Attachmen		•	
2) Notic	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-9 mation Disclosure Statement(s) (PTO-1449) Paper	(48) 5) Notice of	Summary (PTO-413) Paper No(s) Informal Patent Application (PTO-152)

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Art Unit: 2879

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 8-20 are rejected under 35 U.S.C. 102(b) as being anticipated by Zhang et al. (US 5536988).

Regarding claim 8, Zhang discloses (figs 1-2) a device with a substrate (12), a cathode (22) attached to the substrate comprising electron emitters, a grid (282) attached to the device substrate, an output structure with the cathode surface and the grid surface substantially parallel and the cathode or the grid are attached to the device substrate by one or more flexural members (column 5, lines 54-67).

Regarding claim 9, Zhang discloses (column 5, lines 54-67) one or more flexural members attach the cathode and the grid to the substrate.

Regarding claim 10, Zhang discloses (fig 8) the cathode and grid surfaces are substantially perpendicular to the device substrate surface.

Regarding claim 11, Zhang discloses (figs 1 and 5) the cathode and grid are held in the substantially perpendicular position by locking mechanisms attached to the device substrate by one or more flexural members.

Regarding claim 12, Zhang discloses the anode surface is substantially parallel to the cathode surface and the grid surface.

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Regarding claim 13, Zhang discloses (fig 1) the anode is attached to the device substrate by one or more flexural members.

Regarding claim 14, Zhang discloses one or more additional grids attached to the device substrate by one or more flexural members.

Regarding claim 15, Zhang discloses (column 8, lines 55-67) the cathode comprises nanotube emitters.

Regarding claim 16, Zhang discloses (column 8, lines 55-67) the surface of the cathode and grid are 10⁶ um² or less.

Regarding claim 17, Zhang discloses (column 8, lines 55-67) the spacing between the cathode and grid is less than 50 um.

Regarding claim 18, Zhang discloses the device is a triode device (fig 1).

Regarding claim 19, Zhang discloses a plurality of vacuum microelectromechanical devices.

Regarding claim 20, Zhang discloses (fig 1) at least a portion of the plurality of devices are interconnected to provide an integrated electronic circuit.

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ken A Berck whose telephone number is (703)305-7984. The examiner can normally be reached on Mon-Fri 8:30-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nimesh Patel can be reached on (703)305-4794. The fax phone numbers

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for the organization where this application or proceeding is assigned are (703)308-7382 for regular communications and (703)308-7382 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703)308-0956.

kab 💋 🦒 June 30. 2003

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